

# The Ole Miss Engineer

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Article 1

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## Ole Miss Engineer 1991

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*The University of Mississippi*

# **OLE MISS ENGINEER**

**SCHOOL OF ENGINEERING • SPRING 1991**

## **Brevard Family Scholarship Endowment in Engineering Announced**

The largest donation ever made to The University of Mississippi School of Engineering - a \$1,000,000 scholarship endowment - has been contributed by Henry C. Brevard, Jr., of Tupelo. Brevard, president of B & B Concrete Company, earned his bachelor's degree in civil engineering from Ole Miss in 1943. During his comments at the announcement by Chancellor Turner of the Brevard Family Scholarship Endowment in Engineering for undergraduate scholarships, Brevard explained that his parents were able to send him to Ole Miss during the Depression, saying, "It was a privilege for me to go to Ole Miss, and it's now both a pleasure and privilege for me and my family to make it possible for others to attend Ole Miss. My family and I have a real affection and a high regard for The University of Mississippi and the School of Engineering." The first scholarships from the fund are expected to be granted for the fall 1991 semester.



"Over time, this endowment will provide what the School of Engineering has not had in the past - a recruiting tool to attract the very best students. Within four years, we will have at least 15 to 20 Brevard Scholars on the Ole Miss campus," said Chancellor Gerald Turner.

## **Dr. James Vaughan Named University of Mississippi's Outstanding Teacher**

Dr. James G. Vaughan, professor of mechanical engineering at Ole Miss is the university's outstanding teacher for 1990-91. Vaughan was presented the coveted Elsie M. Hood Outstanding Teacher Award by Chancellor R. Gerald Turner at Honors Day ceremonies in April. He is the 25th Ole Miss instructor to win the award and the second engineering teacher. Dr. Frank Anderson, retired chemical engineering professor, was the second university recipient of this award in 1966.

Vaughan was praised for excellence in classroom teaching, combined with strong student counseling and advising. He is faculty adviser to senior mechanical engineering students, the school Honor Council, the Engineering Student Body, and several other student groups. He was noted for involving numerous undergraduate and graduate students in his research.

"The emotions...are overwhelming," Vaughan told the near capacity audience. "I place teaching as the highest priority in my professional life," said Vaughan. "Teaching is the prime mission of Ole Miss." He said his being selected for the award was a high point in his academic career.

Vaughan received the Burlington Northern Outstanding Faculty Achievement Award in 1989 and has twice received the Outstanding Engineering Teacher Award given by the Engineering Alumni Chapter. Vaughan has also received the national Ralph R. Teetor Educational Award from the Society of Automotive Engineers.



# WOODS ORDER

Frank A. Anderson, Chairman; Joseph E. Lauderdale, Vice Chairman

The Woods Order is a special organization established by the Engineering Alumni Chapter in cooperation with The University of Mississippi Foundation to administer large gifts for the benefit of the School of Engineering. Membership in the Woods Order is open to an Engineering Alumni Chapter member, a friend, an organization, a family or other entity dedicated to the well-being of the School of Engineering.

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Frederick J. Swearingen

## Member in Memoriam

William E. Genetti  
# New member from  
9/1/90 to 5/31/91

% Sustaining member  
1989/1990

\* Sustaining member  
1990/1991

Note: Diligent efforts were made to ensure a complete and accurate list. Please notify the Office of Alumni Affairs of any errors or omissions for immediate attention.

### CONTRIBUTION FORM

<b>OLE MISS</b> <b>Engineering</b> <b>ALUMNI CHAPTER</b> My gift in support of the School of Engineering will be \$ _____ _____ THE WOODS ORDER— (\$5,000, \$500/year for 10 years) _____ CENTENNIAL CLUB—(\$100 annually) _____ Other (specify) _____ _____ Check enclosed. Payment will be made: _____ annually, _____ semi-annually, _____ quarterly, _____ monthly by bank draft to begin on _____	NAME	CLASS
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### Dean's Comments

On March 24-27, 1991 the School of Engineering was the host for the 28th annual National Engineering Dean's Institute of the American Society for Engineering Education. Approximately 150 engineering deans and their spouses from throughout the United States, Canada, and Mexico attended the meeting held at the Perdido Beach Hilton Hotel in Orange Beach, Alabama. The Ole Miss engineering school is the only school in the mid-south region ever to serve as the single host of this conference.

As usual, students, faculty, and alumni of the Engineering School continue to receive many awards. Gregg William Tobin, a senior in the electrical engineering department, was selected as the Mississippi Engineering Society (MES) Outstanding Senior in Engineering for Ole Miss. Bill Burle, a Ph.D. candidate in the civil engineering department, won the MES Outstanding Young Engineer of the Year Award. Dorothy Coleman, a senior in civil engineering and current Engineering Student Body president, was chosen for the MES Auxiliary Award as the Outstanding Female Engineering Student in Mississippi. With regard to the faculty, Dr. James Vaughan, professor of mechanical engineering and associate dean for undergraduate affairs, won the Elsie M. Hood Outstanding Teacher Award for the University for 1990-91, and Dr. Jeff Roux, professor and chair of mechanical engineering, was chosen as the Outstanding Engineering Faculty Member of the Year for 1990-91. Finally, alumni Wells Nutt (BSCE 1962) and Ed Wall (BSCE 1957) were recognized as University of Mississippi Engineers of Distinction at the annual engineering school awards banquet.

During this spring semester, there have been a large number of scholarship funds and endowments established for the School of Engineering by alumni and friends. These are the Brevard Family Scholarship Endowment in Engineering, the Charles W. Jenkins Scholarship Fund in Engineering, the Neel-Schaffer Minority Scholarship Fund in Engineering, the George Cooke Lewis Memorial Scholarship in Engineering Endowment Fund, and the David W. and Barbara D. Arnold Endowment Fund. The engineering school is extremely appreciative of this financial support for the future engineering students of Ole Miss.

### Dr. Jeffrey A. Roux Selected Outstanding Engineering Faculty Member of the Year

Dr. Jeffrey Roux, professor and chair of mechanical engineering, has been selected as the Outstanding Engineering Faculty Member of the Year recipient for 1990-1991. This is the second time Dr. Roux has received this award, previously receiving the award for 1983-1984. The award recognizes faculty members within the School of Engineering for their excellence in teaching and for significant contributions in the areas of research and public service and is given by the Engineering Alumni Association.

Dr. Roux joined the University in 1981 and became department chair in 1986. Dr. Roux was a 1987 recipient of a Ralph R. Teetor Educational Award presented by the Society of Automotive Engineers. This national award recognizes outstanding contributions to engineering education. Dr. Roux was selected as the Outstanding Mechanical Engineering Teacher in 1988 by the student chapter of the American Society of Mechanical Engineering.

In addition to his teaching responsibilities, Dr. Roux has been involved in a variety of service activities including university committee work and reviewer for several journals. Dr. Roux has numerous publications in the area of heat transfer. His recent research includes heat and moisture transfer, the use of foil radiant barriers for attic insulation, and solar energy. He has worked with Ford Motor Company on thermal modeling of their glass annealing process and is currently involved in the School of Engineering Composite Materials Group with thermal modeling of the pultrusion process.





## Computational Hydrosience

Dr. Sam S.Y. Wang, Frederick A.P. Barnard Distinguished Professor of Mechanical Engineering and director of the Center for Computational Hydrosience and Engineering at Ole Miss, was recently selected by the American Society of Civil Engineers to chair a newly established National Task Committee on Verification of 3-D Free-Surface Hydrodynamic Models.

Due to the fact that computational modeling and simulation are being used by more and more research scientists and engineers in conducting basic and applied research as well as engineering system analysis and design, a large number of 3-D hydrodynamic models have been developed and published in recent years. They have been proven to be more cost-effective than the physical or scaled modeling and field studies. In addition, computational simulation has also been accepted as an engineering tool to assess environmental impact of engineering projects from both a short- and especially long-term point of view. Many of these computational models available now have been developed for a specific project with limited verification. The ASCE has decided to provide a significant contribution to the hydro-engineering field by carrying out a difficult task to determine the capabilities, validity, and limitations of as many 3-D hydrodynamic models as possible.

Recommended by the computational hydraulics committee, the executive council of the ASCE hydraulics division selected Dr. Wang to chair this task committee of great importance. Since its establishment approximately a year ago, many well-known scholars, research scientists, and engineers have decided to participate in this task. They represent not only various institutions in the United States but also several countries worldwide, including U.S. Geological Survey, U.S. Army Waterways Experiment Station, The University of Mississippi, Rhode Island, Miami, Princeton, consulting firms, Delft Hydraulics of the Netherlands, Hannover University of Germany, University of London of UK, Joint Research Center of the European Communities, Chuo University of Japan, etc. Therefore, this national committee has become a de facto international task committee.

The task is to be carried out in two phases for a period of five to six years. During phase I, reliable physical model data, field data, and analytic solutions of the free-surface flows are

being collected; the institutions having 3-D flow simulation models are being invited to participate; and verification test cases and procedures are being developed.

A technical session has been organized at the 1991 ASCE National Conference on Hydraulic Engineering to be held in Nashville in July 1991. Committee members shall present their findings about the 3-D computational model development and applications, attempts to verify their models using laboratory and field data, and the approach to the utilization of analytic solutions to test the capabilities of these models to simulate the basic characteristics of the 3-D turbulent flows. A panel session shall also be held at the same conference for the task committee to present its proposed test cases and procedures and to collect the suggestions and contributions from the professionals attending the conference.

Up to now, many institutions have decided to contribute interesting data from Chesapeake Bay, Hudson Estuary, Tokyo Bay, North Sea, laboratories at Delft Hydraulics, Waterways Experiment Station, etc. for this important task. Numerous 3-D simulation models have been identified for verification studies. The Center for Computational Hydrosience and Engineering is serving as the focal point as well as prime mover of this project, which shall bring national and world-wide recognition to the School of Engineering of The University of Mississippi in the years to come.

## The Department of Geology and Geological Engineering

The Department of Geology and Geological Engineering acquired a new seismograph and put it into operation March 19, 1991. The recorder is in the lobby of Carrier Hall and is accessible to public view. The seismometer, a Kinematics SS-1 operated in a vertical mode, is on an isolated concrete block in the basement between Carrier and Anderson halls. The continuous ink traces on paper records are changed daily. The equipment configuration is essentially similar to the seismometer in the same location prior to 1974. The site is noisy during the daytime, but several earthquakes of magnitude 6 have been recorded from Columbia and Peru during the night quiet hours. One M 2.8 quake was detected from the New Madrid system in the first week of operation.



## Department of Computer and Information Science

For the second consecutive spring semester, the undergraduate software engineering class under the direction of Ms. Pam Lawhead participated in a project with IBM Federal Sector Division (FSD) in Boulder, Colorado. Last year's project involved developing a statistical plot package for FSD using the specification and procedures of IBM and DOD 2167A. IBM provided a copy of all of the requirements for each student and sent a representative to the campus to review the project at each of the life-cycle stages. This year's effort required performance enhancement upgrades to last year's project. Additionally, the software engineering group had to provide IBM with a graphical user interface for the statistical plot package. The work is again accomplished in the Ada programming language on the Sun workstations with its future platform targeted for the RISC 6000. IBM funded project costs.

Dr. Robert F. Roggio was again a judge (one of eight) in the ACM Scholastic Programming Contest sponsored by AT&T Computer Systems. This is an international contest where 25 teams compete for significant scholarships and awards for their universities and countries. Dr. Roggio is also the national president of Upsilon Pi Epsilon, the honor society for the computing sciences.

Dr. Ing-Ray Chen was recently selected to serve in the summer faculty program sponsored by the Air Force Office of Scientific Research at the Avionics Laboratory in Dayton, Ohio.

Ms. Sally Lee, instructor in computer and information science, has been placed under contract to provide classroom and hands-on training in the Oracle relational database management system to personnel at the Advanced Solid Rocket Booster Manufacturing Plant at Iuka during April 1991.

Several equipment grants were received by the department this year which have enhanced the laboratory facilities significantly. In response to a proposal by Drs. Conrad Cunningham and Tobin Maginnis, a Sun 4/110 color workstation (value over \$35,000) was donated to the department by Sun Microsystems.

In addition to the Sun acquisition, Dr. Cunningham solicited the donation of transputer hardware and software from Inmos Division of SGS-Thomson Microelectronics. This donation (\$8600), coupled with an Associates Grant, is currently being used to continue development of

a parallel/distributed programming laboratory.

The faculty of the department produced a number of publications in scholarly journals and in conference proceedings.

The local student chapter of Upsilon Pi Epsilon (UPE) has recently inducted three more members into this prestigious honor society. They are Mr. Alan Able, Mr. Charles Boxx, and Mr. James A. Frush. UPE is the official honorary for computer scientists and has more than 100 university chapters worldwide.

The Computer and Information Science Department at Ole Miss continued its annual dominance of awards at the Annual ACM Mid-South Chapter Conference in Gatlinburg by winning half of all the awards offered to student papers in both graduate and undergraduate divisions. In the Undergraduate Student Paper Division, Mr. Ken Ivey won second place for his paper on "Ada Modularity and Integration;" Mr. Seth Lowrey won third place for his paper entitled, "On the Use of Ada in Mathematical Applications;" and in the Graduate Student Division, Mr. David Johnson won second place for his paper on "Portability and Ada ... Some Suggestions." All papers were presented and were judged by faculty members from a wide variety of southeastern colleges and universities. This effort was under the direction of Ms. Pam Lawhead.

## Dorothy Coleman Selected for School of Engineering Student Hall of Fame

Each year, students in the School of Engineering select members of the senior class for inclusion into the Engineering Student Body Hall of Fame. This year Dorothy Coleman, a civil engineering senior, was chosen for this special award by her fellow students.



Dorothy served as the Engineering Student Body president for the 1990-91 year as well as president of ASCE and vice president of Tau Beta Pi. She was also selected for the MES Auxiliary Award as the Outstanding Female Engineering Student in Mississippi.



## Electrical Engineering

Dr. Atef Elsherbeni, assistant professor of electrical engineering; Dr. Darko Kajfez, professor of electrical engineering; and Mr. John Hawes, electrical engineering senior, are developing a software package for graphical display of propagating waves inside metal waveguides. Supported waveguides are rectangular, circular, sector, and circular with a conducting baffle. The package has been developed for use in undergraduate and introductory graduate electromagnetics courses. This project was initiated by a grant received by Dr. Elsherbeni from the NSF/IEEE Center for Computer Applications in Electromagnetics Education (CAEME). Additional support was provided by The University of Mississippi Office of Research for the electrical engineering department. The software package description will appear as a chapter in a book published by the CAEME Center later this year. The CAEME Center will also distribute the developed software to all electrical engineering departments in accredited institutions in the United States.

## Tau Beta Pi

Tau Beta Pi held their spring initiation on April 23rd with 10 new members being inducted. Election of new officers took place following the initiation along with a banquet to honor the new members. Activities this spring included hosting an engineering future program which helps train students to deal with problem situations that may occur in an engineer's career.

The officers for 1991-92 are: Joel Brown, president; Isaac White, vice president; Brooke Anthony, corresponding secretary; Michael Edwards, treasurer; Jit-Meng Lim, recording secretary; and Scott Swatzell, cataloguer.

## Telecommunications

The Center for Telecommunications is completing its fifth year in May 1991. The center now offers a full major in telecommunications under the bachelor of engineering degree. Eight students have graduated since the spring of 1989 with that degree. Numerous others have graduated with a minor or emphasis in telecommunications. Still others have received certificates attesting to their fulfilling the requirements for an emphasis or minor while getting a professional degree in engineering.

In June 1991, the director of the Center, Dr. Stacy V. Holmes, and five students, Mr. David Buckler, Mr. Thomas Lee, Mr. Ken Drane, Mr. Chris Ferguson, and Mr. Lee Graham, will attend the annual International Communications Association Conference and Symposium in Anaheim, California. Expenses will be paid by the ICA. Mr. Lee and Mr. Graham will present their papers in a special session of the conference. Each of their papers reached the semifinals of the annual ICA undergraduate paper contest.

During the fall, the center will add a faculty member, although the position is located in the political science department. Dr. Kristina Ford will teach courses on government regulation and public policy in telecommunications. Telecommunications majors and minors will be required to take at least one course in the regulatory aspects of telecommunications.

The center plans to award four or five partial scholarships for the 1991-92 academic year. Applications were received by the center through April 30th, and winners will be announced in May. Individual winners will be notified in writing.

## ASME

This semester ASME has held many activities, including a pizza party, and has sponsored several speakers. Earlier in the semester an individual from an engineering consulting firm spoke on the benefits of working in consulting. In April representatives from Aerojet's Advanced Solid Rocket Motor Division delivered a presentation on the new Yellow Creek rocket facility in Tishomingo County. ASME sponsored a joint picnic with ASCE at Sardis on April 27th. Afterwards ASME challenged ASCE to a softball game.

Three members of ASME attended the regional convention in Birmingham, Alabama, in early April. Steve Richardson, Tim Bridges, and Jason Bennett represented the Ole Miss Chapter of ASME during this convention. The new officers for the 1991-92 school year are: president, Jason Bennett; vice president, Mike Blossom; secretary, Ken Blount; and treasurer, Tom Flaherty.

Several students received awards through ASME. Fairon Pavolini received the John Fox Award, Scott Lee received the International Gas Turbine Institute Award, and Bob Carter received the award for the Outstanding ASME Student.



## Civil Engineering

The Mississippi Section of the American Society of Civil Engineers (ASCE) recently held its annual spring meeting on the Ole Miss campus. It was the first time in the 63-year history of the organization that its meeting had been held here. The meeting was hosted by the Department of Civil Engineering and was held Thursday and Friday, March 21 and 22, in the E.F. Yerby Conference Center. Attending the meeting was Dr. William F. Marcuson III, the national director of ASCE District 14. At a banquet on Thursday evening, David W. Bennett of the Pickering Firm, Inc., in Memphis, Tennessee, gave an extremely informative presentation on the "Design and Construction of the Great American Pyramid." Also at the banquet, which was shared by the Northeast Section of the Mississippi Engineering Society (MES), Dorothy Coleman, a senior civil engineering student at Ole Miss, was recognized by the MES as the outstanding female engineering student in the state of Mississippi for 1990-91.

Technical sessions were held all day on Friday, along with a student paper contest. The contest was won by Hadi Shirazi, an Ole Miss civil engineering senior. At the awards luncheon on Friday, Hadi was presented with the first-place award and a check for \$100.00, and Preston Knight, a civil engineering senior, was recognized as the outstanding Ole Miss civil engineering student for 1990-91.

## ESB

For the spring semester of 1991 the Ole Miss Engineering Student Body's main goal was to bring the different branches of the engineering school together for a field trip. Along with the student chapter of IEEE, the ESB hosted a trip to Huntsville, Alabama, to visit the Marshall Space Center. A group of electrical, civil, mechanical, and chemical engineers left for Huntsville on February 25. The group enjoyed a day long tour of the Space Center on the 26th.

At the end of the semester elections were held to elect new Engineering Student Body officers and an Engineering Student Body Hall of Fame member. The new officers are Tommy Aldermen, president; Robert Tavlin, vice president; Brooke Anthony, secretary; and Tom Horton, treasurer. The elected Hall of Fame student is Dorothy Coleman.

## ASCE

The University of Mississippi American Society of Civil Engineers had a very active semester this spring. The chapter held meetings and planned to attend the regional ASCE conference at Mississippi State University.

At this year's conference, the Ole Miss group competed in the technical paper competition and the surveying competition. Dr. Kenneth Stead, the chapter adviser, and Dr. Samuel L. DeLeeuw, the Chi Epsilon Chapter adviser, helped the ASCE reach their goals. Also, B & B Concrete, Inc. of Tupelo made it possible for the chapter to make Ole Miss T-shirts and to attend the conference.

The Ole Miss Chapter of ASCE also cohosted the American Institute of Steel Construction Steel Bridge Competition. Ole Miss provided judges and officials for this event in which seven universities competed. Another major event of the semester was the Mississippi Section meeting of the ASCE. The student chapter helped the civil engineering department host this meeting and make it a success. ASCE also hosted several speakers. Among those were Lt. Paul Beck with the United States Navy Civil Engineering Corp.

The new student chapter officers for 1991-92 are Preston Knight, president; Sharon Forester, vice president; Chuck Plaxico, secretary; and Brian Crump, treasurer.

## Publications Information

### THE OLE MISS ENGINEER

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Dorothy Coleman, President

Denise Theobald, Editor

Dr. James Vaughan, Faculty Adviser

Please direct all correspondence to Editor, *Ole Miss Engineer*, Office of the Dean, School of Engineering, The University of Mississippi, University, MS 38677.



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### Wall, Nutt Named 1991 Engineers of Distinction

O. Edward Wall and Wells E. Nutt are 1991 recipients of the Engineers of Distinction Award. Chancellor R. Gerald Turner recognized each recipient at the annual Engineering Alumni Chapter luncheon on April 27, 1991.

Since 1983 seventeen Ole Miss engineering graduates or associates have received the award. The purpose of the Engineers of Distinction Award is to recognize publicly outstanding graduates and associates of the School of Engineering. The Engineers of Distinction Award is based on superior accomplishments in one or more areas including design, professional practice, research, education, public service, or other related work. The development and implementation of the Engineers of Distinction Award Program is coordinated through the university's Alumni Association.

O. Edward Wall of Jackson has served as president and CEO of First Chemical Corporation in Jackson since 1981, overseeing four manufacturing plants in the United States and one in Scotland. He received a B.S. in chemical engineering at Ole Miss in 1957, then went on to hold various managerial positions with Union

Carbide Corporation in West Virginia and New York. He came to Jackson in 1972, when he accepted the position of vice president of marketing for First Chemical Corporation.

Wells E. Nutt is president and CEO of Union Camp Technology, Inc., in Franklin, Virginia, where he directs the worldwide sales of Union Camp technology and know-how. He received a B.S. degree from Ole Miss in chemical engineering in 1962 and an M.S. in chemical engineering in 1963. Nutt then joined Union Camp Corporation, one of the country's largest producers of pulp and paper, as a process engineer and served in numerous capacities before being named president and CEO.

